

CLAIMS

1. An electrical energy generator device, comprising an array of micro-fans (3) each associated  
5 to a dynamo-electric generator (5) by means of a  
respective connecting shaft (4), characterised in that  
for at least some of the micro-fans (3), the connecting  
shaft (4) is provided with a lug element (6) which  
mechanically co-operates at each revolution with a  
10 piezoelectric element, for the production of additional  
electrical energy.

2. A generator device as claimed in claim 1,  
characterised in that the piezoelectric element is a  
piezoelectric polymer or a piezoelectric ceramic.

15 3. An electrical energy generator device,  
characterised in that it comprises one or more plates  
(10) of piezoelectric material positioned in the  
direction of a flow of air within a conduit (11) for  
conveying air, in such a way that said plates are  
20 forced to vibrate by the flow of air and consequently  
produce electrical energy.